



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Alucom, LLC.
2145 NW 115th Avenue
Miami, FL 33172

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Terrabella Classic & Terrabella Verona

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 10.

The submitted documentation was reviewed by Juan E. Collao, R.A.



Juan E. Collao

NOA No.: 14-0416.06
Expiration Date: 07/10/19
Approval Date: 07/10/14
Page 1 of 10

ROOFING SYSTEM APPROVAL:

Category: Roofing
Sub-Category: Metal, Panels (Non-Structural)
Material: Steel
Deck Type: Wood
Maximum Design Pressure: -150 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Terrabella Classic	$53 \frac{5}{32}'' \times 16 \frac{5}{32}''$ $51 \frac{3}{16}'' \times 14 \frac{31}{32}''$ (installed coverage) Thickness min. 0.018" Min. 40 ksi.	TAS 110	Stone Coated Metal Panel Shingle
Terrabella Verona	$43 \frac{15}{16}'' \times 17 \frac{3}{4}''$ $39 \frac{3}{8}'' \times 15 \frac{3}{4}''$ (installed coverage) Thickness min. 0.018" Min. 40 ksi.	TAS 110	Stone Coated Metal Panel Shingle

MANUFACTURING LOCATION

1. San Pedro Sula, Honduras

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Construction Materials Technologies	ASTM B 117	ALCM-005-02-01	10/04/12
	ASTM G 155	ALCM-004-02-01	11/15/12
	TAS 100	ALCM-008-02-01	06/26/14
	TAS 100	ALCM-009-02-01	06/30/14
	TAS 125	ALCM-006-02-01	06/26/14
	TAS 125	ALCM-007-02-01	06/26/14



NOA No.: 14-0416.06
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APPROVED ASSEMBLIES:

System A:	Terrabella Classic
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction ¹⁹ / ₃₂ " or greater plywood or wood plank, or Re-roof ¹⁵ / ₃₂ " or greater plywood or wood plank.
Slope Range:	2:12 or greater
Maximum Uplift Pressure:	See Fastening Options Below

Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than ¹⁹ / ₃₂ " thick (Minimum ¹⁵ / ₃₂ ") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll or any approved underlayment having a current NOA. Vertical laps at the valley shall be woven by extending the underlayment a minimum 12" past the valley center.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Battens:	Install 2" x 2" wood battens over underlayment, running perpendicular to roof slope, at 15" o.c. Attach wood battens through the deck to wood trusses spaced 24" o.c. with one (1) #10 x 4" corrosion resistant wood screw. At the valley, the 2" x 2" battens are anchored 1" from the edge of the valley pan with one (1) #10 x 4" corrosion resistant screw. Install 2" x 2" wood batten along rake and secure to deck with one corrosion (1) #10 x 4" wood screw at 24" o.c.
Valleys:	Install 26 ga. 18 1/2" wide preformed valley with 2 3/4" diverter. Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Alucom LLC's current published installation instructions.
Eave Termination:	26 ga. preformed 2" x 1 1/2" drip edge shall be installed at the eave and shall be fastened to the deck in a staggered pattern with 12 ga. x 1 1/4" corrosion resistant ring shank nails at 4" o.c. and in accordance to RAS 111. Install 8" wide, 26 ga. stone coated eave trim over the drip edge into the fascia with corrosion resistant #9 x 1 1/4" pan head screws at 16" o.c. Extend eave trim over the first batten on deck and fasten with corrosion resistant #9 x 1 1/4" pan head screws at 16" o.c.
Rake Termination:	Install 26 ga. preformed 2" x 1 1/2" drip edge and fastened with corrosion resistant 12 ga. x 1 1/4" ring shank nails at 4" o.c. in a staggered pattern. Install 26 ga 6 1/2" x 1 1/2" galvanized flashing over batten and fasten with corrosion resistant #9 x 1 1/4" pan head screws at 16" o.c. Install 26 ga. 2" x 2" galvanized angle closure at the rake edge into the top of batten with corrosion resistant #9 x 1 1/4" pan head screws at 16" o.c. Cap rake edge with 26 ga. stone coated metal rake trim with two (2) #9 x 1 1/4" corrosion resistant pan head screws anchored to the batten at the rake and into the fascia.

Metal Panels and Accessories:

Install the "Terrabella Classic" and accessories in compliance with Alucom LLC's current, published installation instructions and details. Flashings, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133.

Field Condition:

Panels shall be fastened to battens with corrosion resistant #10-14 x 3" screws of sufficient length to penetrate through the sheathing a minimum of $3\frac{3}{16}$ ", installed at a rate of four (4) fasteners per panel. One fastener is placed $2\frac{1}{4}$ " from the panel edge in the lap at the vertical leg at a 45° angle to secure into batten. The remaining three (3) fasteners are installed on the vertical leg in similar fashion at $14\frac{5}{8}$ " o.c. See Detail 'A' herein.

Maximum Design Pressure for Field Condition:

-71.25 psf. (See General Limitation #2)

Perimeter and Corner Condition:

Panels shall be fastened to battens with corrosion resistant #10-14 x 3" screws of sufficient length to penetrate through the sheathing a minimum of $3\frac{3}{16}$ ", installed at a rate of seven (7) fasteners per panel. One fastener is placed $2\frac{1}{4}$ " from the panel edge in the lap at the vertical leg at a 45° angle to secure into batten. The remaining six (6) fasteners are installed on the vertical leg in similar fashion at $7\frac{5}{16}$ " o.c. See Detail 'A' herein.

Maximum Design Pressure for Perimeter and Corner Condition:

-150 psf. (See General Limitation #2)

System B:	Terrabella Verona
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction $1\frac{9}{32}$ " or greater plywood or wood plank, or Re-roof $1\frac{5}{32}$ " or greater plywood or wood plank.
Slope Range:	2:12 or greater
Maximum Uplift Pressure:	See Fastening Options Below
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than $1\frac{9}{32}$ " thick (Minimum $1\frac{5}{32}$ ") The above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 $\frac{1}{4}$ " annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll or any approved underlayment having a current NOA. Vertical laps at the valley shall be woven by extending the underlayment a minimum 12" past the valley center.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Battens:	Install minimum 2" x 2" wood battens over underlayment, running perpendicular to roof slope, at 15 $\frac{3}{4}$ " o.c. Attach wood battens through the deck to wood trusses spaced 24" o.c. with one (1) #10 x 4" corrosion resistant wood screw. At the valley, the 2" x 2" battens are anchored 1" from the edge of the valley pan with one (1) #10 x 4" corrosion resistant screw. Install 2" x 2" wood batten along rake and secure to deck with one corrosion (1) #10 x 4" wood screw at 24" o.c.
Valleys:	Install 26 ga. 18 $\frac{1}{2}$ " wide preformed valley with 2 $\frac{3}{4}$ " diverter. Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Alucom LLC's current published installation instructions.
Eave Termination:	26 ga. preformed 2" x 1 $\frac{1}{2}$ " drip edge shall be installed at the eave and shall be fastened to the deck in a staggered pattern with 12 ga. x 1 $\frac{1}{4}$ " corrosion resistant ring shank nails at 4" o.c. and in accordance to RAS 111. Install 8" wide, 26 ga. stone coated eave trim over the drip edge into the fascia with corrosion resistant #9 x 1 $\frac{1}{4}$ " pan head screws at 16" o.c. Extend eave trim over the first batten on deck and fasten with corrosion resistant #9 x 1 $\frac{1}{4}$ " pan head screws at 16" o.c.
Rake Termination:	Install 26 ga. preformed 2" x 1 $\frac{1}{2}$ " drip edge and fastened with corrosion resistant 12 ga. x 1 $\frac{1}{4}$ " ring shank nails at 4" o.c. in a staggered pattern. Install 26 ga. galvanized flashing over batten and fasten with corrosion resistant #9 x 1 $\frac{1}{4}$ " pan head screws at 16" o.c. Install 26 ga. 2" x 2" galvanized angle closure at the rake edge into the top of batten with corrosion resistant #9 x 1 $\frac{1}{4}$ " pan head screws at 16" o.c. Cap rake edge with 26 ga. stone coated metal rake trim with two (2) #9 x 1 $\frac{1}{4}$ " corrosion resistant pan head screws anchored to the batten at the rake and into the fascia.

Metal Panels and Accessories:

Install the "Terrabella Verona" and accessories in compliance with Alucom LLC's current, published installation instructions and details. Flashings, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133.

Field Condition:

Panels shall be fastened to battens with corrosion resistant #10-14 x 3" screws of sufficient length to penetrate through the sheathing a minimum of $\frac{3}{16}$ ", installed at a rate of five (5) fasteners per panel. Two fasteners are placed 1" and $4\frac{5}{8}$ " from the panel edge in the lap at the vertical leg at a 45° angle to secure into batten. The remaining three (3) fasteners are installed on the vertical leg in similar fashion at 10" o.c. See Detail 'B' herein.

Maximum Design Pressure for Field Condition:

-112.5 psf. (See General Limitation #2)

Perimeter and Corner Condition:

Panels shall be fastened to battens with corrosion resistant #10-14 x 3" screws of sufficient length to penetrate through the sheathing a minimum of $\frac{3}{16}$ ", installed at a rate of eight (8) fasteners per panel. Fasteners are placed 1", $4\frac{5}{8}$ ", 11", $14\frac{5}{8}$ ", 21", $24\frac{5}{8}$ ", 31" and $34\frac{5}{8}$ " from the panel edge in the lap at the vertical leg at a 45° angle to secure into batten. See Detail 'B' herein.

Maximum Design Pressure for Perimeter and Corner Condition:

-142.5 psf. (See General Limitation #2)

LIMITATIONS:

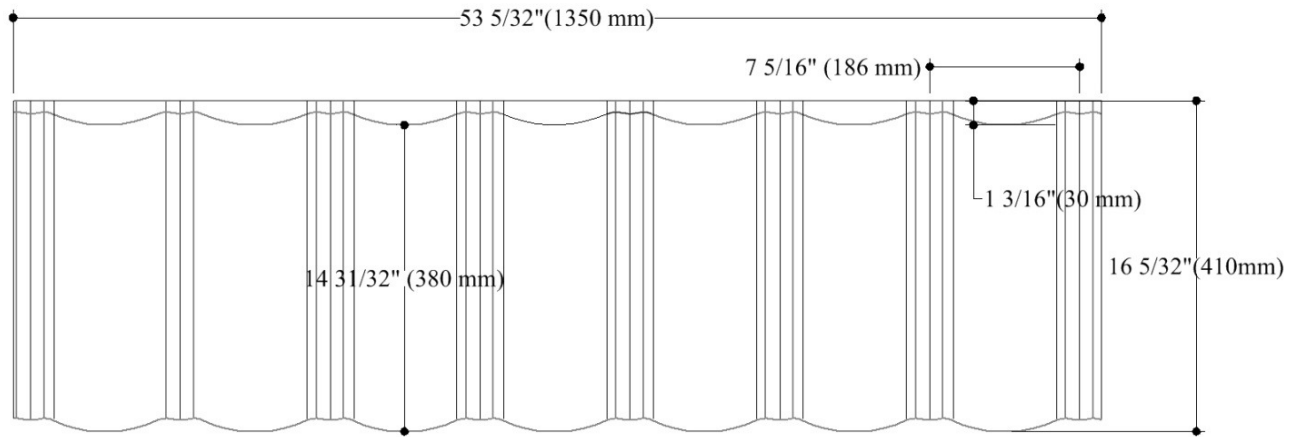
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. All panels shall be permanently labeled with the manufacturer's name and/or logo, city and state of manufacturing facility, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below.



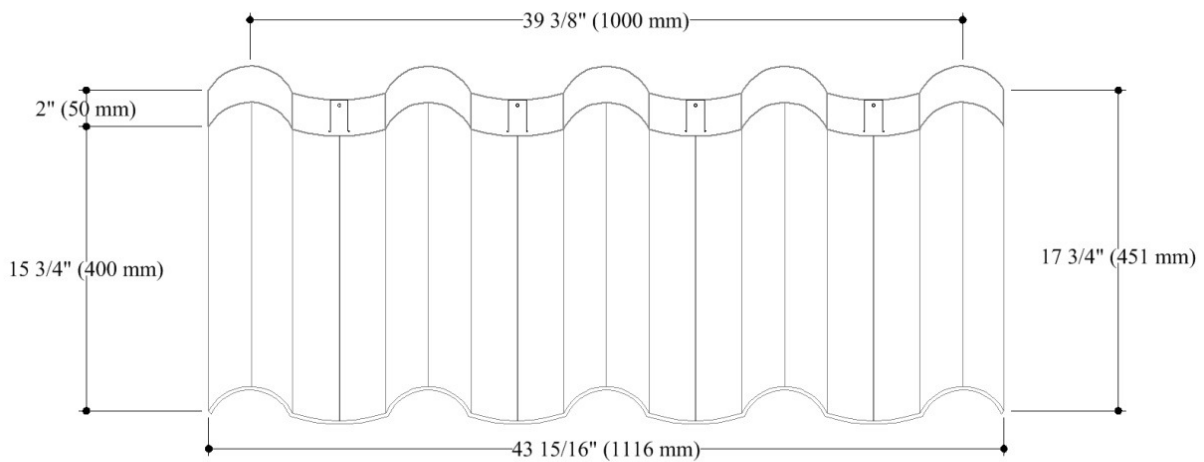
4. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



PROFILE DRAWINGS:

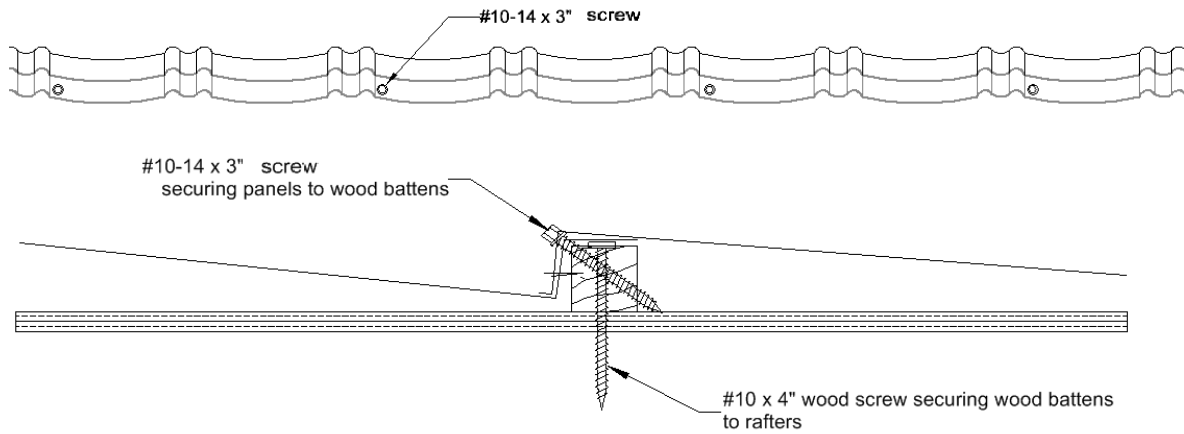


TERRABELLA CLASSIC

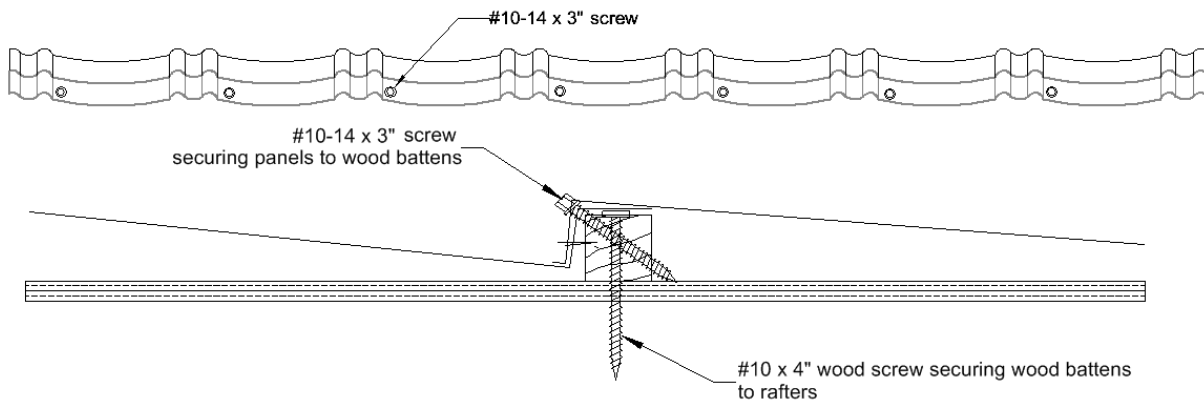


TERRABELLA VERONA

DETAIL 'A' DRAWINGS:



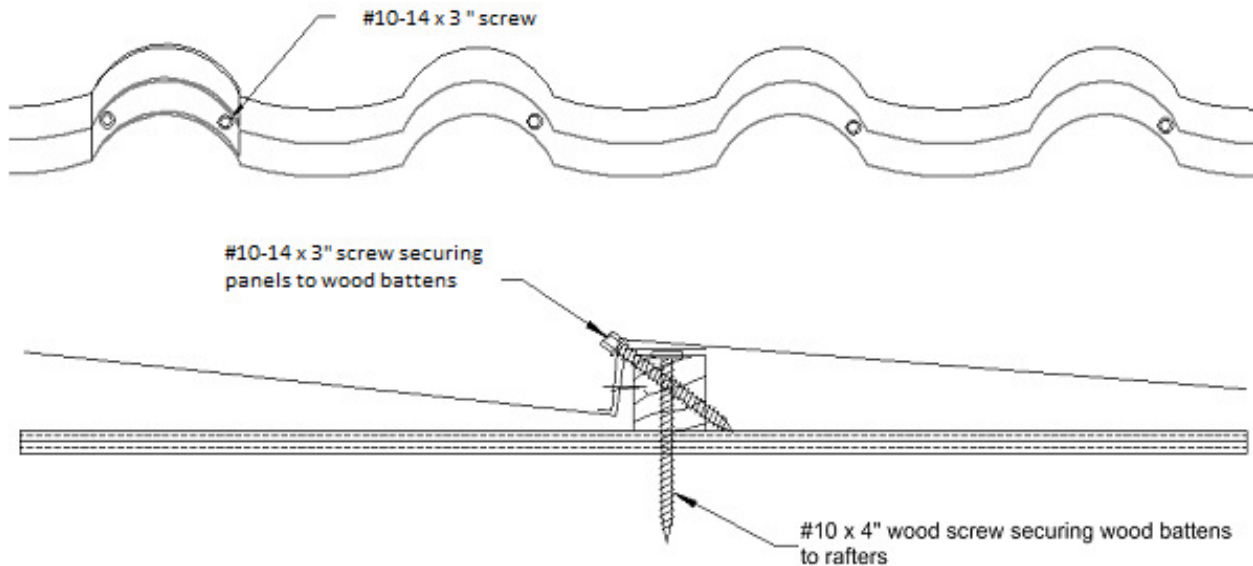
TERRABELLA CLASSIC FIELD INSTALLATION (4 SCREWS/PANEL)



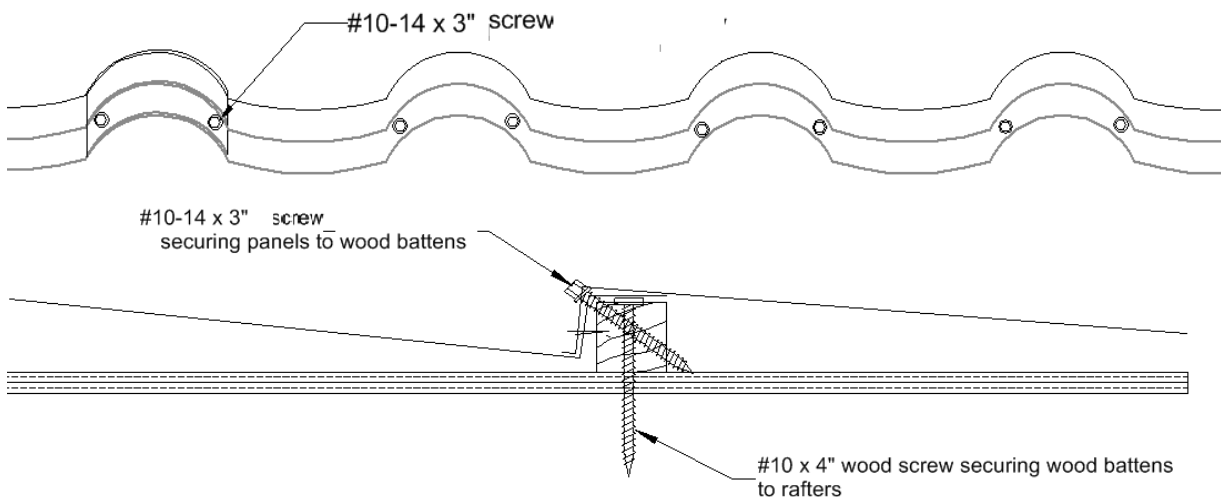
TERRABELLA CLASSIC PERIMETER/CORNER INSTALLATION (7 SCREWS/PANEL)



DETAIL 'B' DRAWINGS:



TERRABELLA VERONA FIELD INSTALLATION (5 SCREWS/PANEL)



TERRABELLA VERONA PERIMETER/CORNER INSTALLATION (8 SCREWS/PANEL)

END OF THIS ACCEPTANCE